

Work Order ID 132652

132652

Page 1

Thursday, May 07, 2015 3:05:08 PM

Item ID: 646.4001 Accept *N900040100* Setup Start *NS1*
 Revision ID: Stop *NS2*
 Item Name: AS350 Cable Cutter System
 Start Date: 6/1/2015 Start Qty: 1.00 *1* Cust Item ID:
 Required Date: 6/6/2015 Req'd Qty: 1.00 *1* Customer:
 Reference:

Approvals: Process Plan: MLS Date: MAY 11 2015 Tooling: _____ Date: _____
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____
 Run Start *NR1*
 Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr
646.4000	B

100 Document Control 0.00
 100
 DC DOCUMENT CONTROL
 Memo 0.00
 Doc.Control -USB or Paperwork Photocopy bluefile & type labels per PPP 646.4001

110 Pick Kit 0.00
 110
 Packaging Memo 0.00
 Packaging

120 QC4- 100% Inspect kits for completeness 0.00
 120
 QC Memo 0.00
 Quality Control

ML
 JUN 22 2015
 DAS 02 9-89
 JUN 23 2015
 JUN 13 2015
 DAS 6 9-89
 DAS 02 9-89
 JUN 07 2015

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>				Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐																																																
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Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
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Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
130	Packaging	0.00							
130									
Packaging	Memo	0.00							
Packaging	Identify and pack for shipping as per PPP 646.4001								
	Location: <u>EG 101</u>								
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.00							
Quality Control									

DAS
02
9-89

JUL 07 2015

MLJ

JUL 07 2015

MLJ

JUL 07 2015

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

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Picklist Print

Thursday, May 07, 2015 3:05:12 PM

Page 1

Work Order ID: 132652

132652

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 6/1/2015

Required Date: 6/6/2015

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP REV:A 12.10.23 NEW ISSUE DD VERF:JLM
IPP REV:B 15.01.08 AS PER DWG REV.B DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
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646.3301		Manufactured	No				Each	15.0000		[1]		2015 05 09	
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646 3301

Upper Cutter Assy

DAS
02
9-89

~~DAS
26
9-89~~

Location

Loc Qty

Loc Code

CCK042

13

100125

3

123396

8

124729

2

CCK046

2

124258

2

646.3001		Manufactured	No				Each	15.0000		[1]		2015 05 09	
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646 3001

Lower Cutter Assy

DAS
02
9-89

~~DAS
26
9-89~~

Location

Loc Qty

Loc Code

CCK045

15

124505

6

124733

7

92897

2

646.2910		Manufactured	No				Each	18.0000		[1]		2015 05 09	
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646 2910

Deflector

DAS
02
9-89

~~DAS
26
9-89~~

Location

Loc Qty

Loc Code

CCK050

18

100811

2

123356

16

JUN 22 2015

DAS
02
9-89

~~DAS
26
9-89~~

22

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="width:15%;">Skid-tube ☐</td> <td style="width:15%;">Cross tube ☐</td> <td style="width:15%;">Water Jet ☐</td> <td style="width:15%;">Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐																						
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐																						
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐																						
Large Fab ☐	Composite ☐	Supplier ☐																							
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval																		
Description Work Order Deviation				Disposition																					
Root Cause		FAULT CATEGORY																							
Environment ☐	☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐																			
Design ☐	☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐																			
Doc/Data ☐	☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐																			
Equip/Tooling ☐	☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐																			
Handling/Pre ☐	☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐																			
Material ☐	☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐																			
Internal Transport ☐	☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐																			
Tribal Knowledge ☐	☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐																			
LOA ☐	☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐																			
Substation ☐	☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐																			
Past Expiry Date ☐	☐	Manufacturing Process ☐	OTHER :																						
Misidentified ☐	☐	Past Due ☐																							

Picklist Print

Page 2

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Work Order ID: 132652

132652

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 6/1/2015

Required Date: 6/6/2015

Start Qty: 1.00

Required Qty: 1.00

646.3810

Manufactured No

Each

24.0000

646.3810

Bracket

DAS
02
9-89

~~DAS
26
9-89~~

Location

Loc Qty

Loc Code

cck023a

6

131001

6

cck104

18

123020

6

124329

4

127867

6

129890

2

**

~~DAS
26
9-89~~

DAS
26
9-89

646.3510

Manufactured No

Each

21.0000

646.3510

Strut

DAS
02
9-89

~~DAS
26
9-89~~

Location

Loc Qty

Loc Code

cck101

6

120150

6

cck15a

15

106666

4

127077

11

**

~~DAS
26
9-89~~

DAS
26
9-89

646.3511

Manufactured No

Each

18.0000

646.3511

Strut

DAS
02
9-89

~~DAS
26
9-89~~

Location

Loc Qty

Loc Code

cck102

5

120292

5

cck15a

13

102891

4

127082

9

**

JUN 22 2015

~~DAS
26
9-89~~

DAS
26
9-89

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width: 100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐																						
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐																						
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐																						
Large Fab ☐	Composite ☐	Supplier ☐																							
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval																		
Description Work Order Deviation				Disposition			Completed By																		
							Lead hand / Supervisor Approval Verification																		
							QC / QA Coordinator Approval																		
Root Cause		FAULT CATEGORY																							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐	OTHER :																			

Picklist Print

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Page 3

Work Order ID: 132652

132652

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 6/1/2015

Required Date: 6/6/2015

Start Qty: 1.00

Required Qty: 1.00

647.0112 Manufactured No

Each 231.0000

647 0112

Strut Bracket

DAS
02
9-89

~~DAS
26
9-89~~

Location

Loc Qty

Loc Code

CCK109

231

112215

34

122245

19

122871

52

123318

34

M130388

92

647.7703 Manufactured No

Each 8.0000

647 7703

Strut Assembly

DAS
02
9-89

~~DAS
26
9-89~~

Location

Loc Qty

Loc Code

CCK112

8

128211

3

130285

5

NAS1149F0332P Purchased No

Each 3,600.000

NAS1149F0332P

Washer

DAS
02
9-89

~~DAS
26
9-89~~

Location

Loc Qty

Loc Code

GA

222

122063

222

ST260a

2586

m128401

6

m131026

80

m131697

2500

st268

792

123900

286

m130325

420

m130388

86

JUN 2 2 2015

DAS
06
9-89

DAS
26
9-89

Thursday, May 07, 2015 3:05:12 PM

Shop Packet Print

Page 3

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width: 100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐																						
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐																						
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐																						
Large Fab ☐	Composite ☐	Supplier ☐																							
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval																		
Description Work Order Deviation				Disposition				Completed By																	
								Lead hand / Supervisor Approval Verification																	
								QC / QA Coordinator Approval																	
Root Cause		FAULT CATEGORY																							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐	OTHER : ☐																			

Picklist Print

Thursday, May 07, 2015 3:05:12 PM

Work Order ID: 132652

132652

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 6/1/2015

Required Date: 6/6/2015

Start Qty: 1.00

Required Qty: 1.00

MS21042L3

Purchased

No

Each

2,117.000

MS21042L3

Nut

**

61
M132 382

DAS
06
9-89

DAS
26
9-89

DAS
02
9-89

~~DAS
26
9-89~~

Location

Loc Qty

Loc Code

FP001	420	
M130922	420	
GA	602	
M131317	602	
ST305	1095	
116549	12	
126333	49	
M128754	2	
M131624	32	
M132123	1000	

646.3110

Manufactured

No

Each

9.0000

646 3110

Channel

DAS
02
9-89

~~DAS
26
9-89~~

Location

Loc Qty

Loc Code

cck020	9	
100124	2	
126780	7	

DAS
26
9-89

646.3710

Manufactured

No

Each

36.0000

646 3710

Doubler

DAS
02
9-89

~~DAS
26
9-89~~

Location

Loc Qty

Loc Code

CCK015	36	
113729	6	
127550	30	

DAS
26
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER :					

Picklist Print

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Work Order ID: 132652

132652

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 6/1/2015

Required Date: 6/6/2015

Start Qty: 1.00

Required Qty: 1.00

646.3210 Manufactured No

Each 10.0000

646 3210

Support
DAS
02
9-89

Location	Loc Qty	Loc Code
cck020	10	

124388
126777

1
9

**

DAS
26
9-89

646.3713 Manufactured No

Each 28.0000

646 3713

Gusset
DAS
02
9-89

Location	Loc Qty	Loc Code
cck103	28	

120631

28

**

DAS
26
9-89

MS24694-S51 Purchased No

Each 257.0000

MS24694-S51

Screw
DAS
02
9-89

Location	Loc Qty	Loc Code
ST289	257	

m127432
m130928

20
237

**

DAS
26
9-89

AN3-13A Purchased No

Each 78.0000

AN3-13A

Bolt
DAS
02
9-89

Location	Loc Qty	Loc Code
CA	5	

m129682

5

GA

20

m127070

20

ST349

53

m123759

3

m131305

50

**

JUN 2 2 2015

DAS
26
9-89

DAS
26
9-89

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
		OTHER : ☐			

Picklist Print

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Work Order ID: 132652

132652

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 6/1/2015

Required Date: 6/6/2015

Start Qty: 1.00

Required Qty: 1.00

AN3-4A Purchased No

Each 140.0000

AN3-4A

Bolt
DAS
02
9-89

**

10

323/2

DAS
26
9-89

Location	Loc Qty	Loc Code
CA	108	
m129682	108	
ST350	32	
m129702	32	

CR3213-5-3 Purchased No

Each 50.0000

CR3213-5-3

Cherry Rivet
DAS
02
9-89

**

14

132107 x 10

DAS
06
9-89

DAS
26
9-89

Location	Loc Qty	Loc Code
ST319	50	
m127831	30	
m130388	20	

MS20470AD5-5.5 Purchased No

Each 295.0000

MS20470AD5-5 5

Rivet
DAS
02
9-89

**

8

DAS
06
9-89

DAS
26
9-89

Location	Loc Qty	Loc Code
ST310	295	
123425	295	

646.3711 Manufactured No

Each 48.0000

646 3711

Clip
DAS
02
9-89

**

1

DAS
06
9-89

JUN 22 2015

Location	Loc Qty	Loc Code
cck103	48	
120626	46	
93929	2	

DAS
26
9-89

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>				Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐																		
Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐																		
Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐																		
Large Fab ☐	Composite ☐	Supplier ☐																			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval																	
Description Work Order Deviation			Disposition																		
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			QC / QA Coordinator Approval																		
Root Cause		FAULT CATEGORY																			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐																
OTHER :																					

Picklist Print

Page 7

Thursday, May 07, 2015 3:05:12 PM

Work Order ID: 132652

132652

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 6/1/2015

Required Date: 6/6/2015

Start Qty: 1.00

Required Qty: 1.00

646.3712

Manufactured No

Each

38.0000

646 3712

Clip

DAS
02
9-89

Location

Loc Qty

Loc Code

cck103

38

2

36

Each

35.0000

**

646.3811

Manufactured No

646 3811

Radius Block

DAS
02
9-89

Location

Loc Qty

Loc Code

cck104

35

2

18

15

Each

209.0000

**

AN3-6A

Purchased

No

AN3-6A

Bolt

DAS
02
9-89

Location

Loc Qty

Loc Code

ST338a

105

M130466

5

M131305

100

ST349

104

127044

4

M131957

100

**

JUN 2 2 2015

Thursday, May 07, 2015 3:05:12 PM

Shop Packet Print

Page 7

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="width:12.5%;">Skid-tube ☐</td> <td style="width:12.5%;">Cross tube ☐</td> <td style="width:12.5%;">Water Jet ☐</td> <td style="width:12.5%;">Engineering ☐</td> </tr> <tr> <td>Machining ☐</td> <td>Small Fab ☐</td> <td>Prod. Eng. Coord. ☐</td> <td>Quality ☐</td> </tr> <tr> <td>Thermoforming ☐</td> <td>Finishing ☐</td> <td>Rec/Store/Packaging ☐</td> <td>Other ☐</td> </tr> <tr> <td>Large Fab ☐</td> <td>Composite ☐</td> <td>Supplier ☐</td> <td></td> </tr> </table>						Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
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Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐																						
Large Fab ☐	Composite ☐	Supplier ☐																							
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval																		
Description Work Order Deviation				Disposition				Completed By																	
								Lead hand / Supervisor Approval Verification																	
								QC / QA Coordinator Approval																	
Root Cause		FAULT CATEGORY																							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐																				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐																				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐																				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐																				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐																				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐																				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐																				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐																				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐																				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐																				
Past Expiry Date ☐	Manufacturing Process ☐																								
Misidentified ☐	Past Due ☐																								
		OTHER : _____																							

Picklist Print

Page 8

Thursday, May 07, 2015 3:05:12 PM

Work Order ID: 132652

132652

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 6/1/2015

Required Date: 6/6/2015

Start Qty: 1.00

Required Qty: 1.00

MS24694-S55

Purchased

No

Each

102.0000

MS24694-S55

Screw

DAS
02
9-89

Location

Loc Qty

Loc Code

ST289

102

m131317

2

m131624

100

Each

15.0000

**

1
127305

DAS
05
9-89

DAS
26
9-89

646.3610

Manufactured

No

Each

15.0000

646 3610

Filler

9-89 DAS
02

Location

Loc Qty

Loc Code

cck103

9

102275

2

124514

7

k023a

6

127737

6

Each

29.0000

**

1

DAS
05
9-89

DAS
26
9-89

646.3714

Manufactured

No

Each

29.0000

646 3714

Gusset

DAS
02
9-89

Location

Loc Qty

Loc Code

cck103

29

120632

29

Each

1,176.000

**

1

DAS
05
9-89

DAS
26
9-89

MS20470AD5-6

Purchased

No

Each

1,176.000

MS20470AD5-6

RIVET

DAS
02
9-89

Location

Loc Qty

Loc Code

CCK004

890

124089

890

ST309

286

105433

286

JUN 22 2015

DAS
05
9-89

DAS
26
9-89

Thursday, May 07, 2015 3:05:12 PM

Shop Packet Print

Page 8

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER :					

Picklist Print

Page 9

Thursday, May 07, 2015 3:05:12 PM

Work Order ID: 132652

132652

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 6/1/2015

Required Date: 6/6/2015

Start Qty: 1.00

Required Qty: 1.00

646.3812

Manufactured No

Each 24.0000

646.3812

Gusset Bracket

DAS
02
9-89

Location

Loc Qty

Loc Code

cck023a

14

127358

8

130858

6

cck104

10

122898

4

124150

6

Each 432.0000

AN3-3A

Purchased No

AN3-3A

Bolt

DAS
02
9-89

Location

Loc Qty

Loc Code

ST338a

426

m131305

150

m131624

276

ST350

6

m129591

6

Each 22.0000

646.3813

Manufactured No

646.3813

Strut Bracket

DAS
02
9-89

Location

Loc Qty

Loc Code

cck104

7

121503

7

CCK23a

7

127453

4

130946

3

CCK25

8

122968

4

124265

4

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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>				Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐																																																																													
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Picklist Print

Thursday, May 07, 2015 3:05:12 PM

Work Order ID: 132652

132652

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 6/1/2015

Required Date: 6/6/2015

Start Qty: 1.00

Required Qty: 1.00

MS20470AD5-7

Purchased

No

Each

590.0000

MS20470AD5-7

Rivet

DAS
02
9-89

Location

Loc Qty

Loc Code

ST309

590

123425

590

Each

102.0000

**

3

DAS
05
9-89

DAS
26
9-89

MS21047-3

Purchased

No

MS21047-3

Nut Plate

DAS
02
9-89

Location

Loc Qty

Loc Code

ST303

102

m130388

8

m131317

94

Each

241.0000

**

3
18
132382

DAS
05
9-89

DAS
26
9-89

CCR264SS3-02

Purchased

No

CCR264SS3-02

Rivet, Cherry

DAS
02
9-89

Location

Loc Qty

Loc Code

ST321

241

M131340

91

M131803

150

**

36

DAS
05
9-89 JUN 22 2015

DAS
26
9-89

34

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>				Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐																																																
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OTHER :																																																																				

Picklist Print

Thursday, May 07, 2015 3:05:12 PM

Work Order ID: 132652

132652

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 6/1/2015

Required Date: 6/6/2015

Start Qty: 1.00

Required Qty: 1.00

AN3-5A

Purchased

No

Each

602.0000

AN3-5A

Bolt

DAS
02
9-89

Location

Loc Qty

Loc Code

CA

135

m129682

135

FP001

19

124561

4

m130325

15

GA

448

m129507

26

m131420

422

**

2

DAS
06
9-89

DAS
26
9-89

646.3715

Manufactured

No

Each

24.0000

646 3715

Strut Doubler

DAS
02
9-89

Location

Loc Qty

Loc Code

cck103

24

123469

7

124376

9

131050

8

**

2

DAS
06
9-89

DAS
26
9-89

MS27039-1-12

Purchased

No

Each

138.0000

MS27039-1-12

Screw

DAS
02
9-89

Location

Loc Qty

Loc Code

ST285

138

m125654

12

m128799

26

m131317

100

**

6

DAS
06
9-89

JUN 22 2015

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			
				Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐
Past Expiry Date ☐	Manufacturing Process ☐				
Misidentified ☐	Past Due ☐	OTHER :			

Picklist Print

Page 12

Thursday, May 07, 2015 3:05:12 PM

Work Order ID: 132652

132652

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 6/1/2015

Required Date: 6/6/2015

Start Qty: 1.00

Required Qty: 1.00

646.3716 Manufactured No

Each 13.0000

646.3716

Gauge Bracket

DAS
02
9-89

Location

Loc Qty

Loc Code

cck103

13

11

2

Each

98.0000

**

MS20426AD5-7

Purchased No

MS20426AD5-7

RIVET

DAS
02
9-89

Location

Loc Qty

Loc Code

ST312

98

98

Each

54.0000

**

MS24694-S54

Purchased No

MS24694-S54

SCREW

DAS
02
9-89

Location

Loc Qty

Loc Code

ST289

54

14

40

Each

492.0000

**

MS27039-1-21

Purchased No

MS27039-1-21

Screw

DAS
02
9-89

Location

Loc Qty

Loc Code

ST273A

395

m127904

395

ST284

97

124326

8

m126319

89

**

JUN 22 2015

Thursday, May 07, 2015 3:05:12 PM

Shop Packet Print

Page 12

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					

Root Cause				FAULT CATEGORY			
Environment ☐	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐
Design ☐	☐	Operator	☐	Bending	☐	Set-up	☐
Doc/Data ☐	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐
Equip/Tooling ☐	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐
Handling/Pre ☐	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐
Material ☐	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐
Internal Transport ☐	☐	Poor Information	☐	Crushing	☐	Countersink	☐
Tribal Knowledge ☐	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐
LOA ☐	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐
Substation ☐	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐
Past Expiry Date ☐	☐	Manufacturing Process	☐	OTHER :			
Misidentified ☐	☐	Past Due	☐				

Picklist Print

Page 13

Thursday, May 07, 2015 3:05:12 PM

Work Order ID: 132652

132652

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 6/1/2015

Required Date: 6/6/2015

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-20

Purchased

No

Each

258.0000

**

DAS
06
9-89

DAS
26
9-89

MS27039-1-20

Screw

DAS
02
9-89

Location

Loc Qty

Loc Code

ST284

258

258

Each

466.0000

**

DAS
06
9-89

DAS
26
9-89

MS27039-1-19

Purchased

No

MS27039-1-19

Screw

DAS
02
9-89

Location

Loc Qty

Loc Code

GA

132

m124326

32

m127904

100

ST273A

249

m127904

249

ST284

85

125654

44

m127904

41

Each

28.0000

**

DAS
06
9-89

DAS
26
9-89

646.3717

Manufactured

No

646 3717

Doubler

DAS
02
9-89

Location

Loc Qty

Loc Code

cck103

28

120633

28

Each

16.0000

**

DAS
06
9-89

DAS
26
9-89

646.3718

Manufactured

No

646 3718

Custom Washer

DAS
02
9-89

Location

Loc Qty

Loc Code

cck104

16

101019

4

110639

12

JUN 22 2015

Thursday, May 07, 2015 3:05:12 PM

Shop Packet Print

Page 13

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			
				Completed By	
				Lead hand / Supervisor Approval Verification	
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OTHER : ☐					

Picklist Print

Thursday, May 07, 2015 3:05:12 PM

Work Order ID: 132652

132652

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 6/1/2015

Required Date: 6/6/2015

Start Qty: 1.00

Required Qty: 1.00

646.3719

Manufactured No

Each

51.0000

646 3719

Double

DAS
02
9-89

Location

Loc Qty

Loc Code

cck104

20

123589

20

cck126

31

120634

31

Each

381.0000

MS27039-1-10

Purchased

No

MS27039-1-10

SCREW

DAS
02
9-89

Location

Loc Qty

Loc Code

CA

41

m128635

41

GA

239

m129541

239

ST285

101

m123522

2

m130358

85

m130388

14

Each

440.0000

AN3-11A

Purchased

No

AN3-11A

Bolt

DAS
02
9-89

Location

Loc Qty

Loc Code

ST338a

440

m125709

440

DAS
02
9-89

DAS
26
9-89

DAS
02
9-89

DAS
26
9-89

DAS
02
9-89

DAS
26
9-89

JUN 22 2015

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

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OTHER : ☐																																																																					

Picklist Print

Thursday, May 07, 2015 3:05:13 PM

Work Order ID: 132652

132652

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 6/1/2015

Required Date: 6/6/2015

Start Qty: 1.00

Required Qty: 1.00

600.0990 Purchased No

Each 62.0000

600 0990

MAGNABOND 6398 PART A

DAS
02
9-89

Location

Loc Qty

Loc Code

CA2

62

M130388

1

M129818

34

7/16/2015

M131589

27

2/11/2016

DAS

06

9-89

26

9-89

600.0991 Purchased No

Each 67.0000

600 0991

MAGNOBOND 6398 PART B

DAS
02
9-89

Location

Loc Qty

Loc Code

CA2

62

m130388

1

M129818

33

7/16/2015

m131589

28

2/11/2016

DAS

06

9-89

26

9-89

DAS

26

9-89

600.1012 Purchased No

Each 20.0000

600 1012

Sealant PR1425B2 (#654 sem)

DAS
02
9-89

EXP DATE
OCT 2015

Location

Loc Qty

Loc Code

cck017

18

m131364

18

10/30/2015

cck018

2

m129749

2

DAS

06

9-89

JUN 22 2015

DAS

26

9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐							
Date :		Step #:		QTY Effective :				MRB (QSI042) Approval			
Description Work Order Deviation				Disposition				Completed By			
Root Cause				FAULT CATEGORY							
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐		No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐		Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐		Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐		Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐	
OTHER : ☐											

Picklist Print

Thursday, May 07, 2015 3:05:13 PM

Work Order ID: 132652

132652

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 6/1/2015

Required Date: 6/6/2015

Start Qty: 1.00

Required Qty: 1.00

600.0129 Purchased No f 240.0000

600 0129

VHB TAPE 75835A651

**

8

127920

DAS
06
9-89
DAS
26
9-89

DAS
02
9-89

Location

Loc Qty

Loc Code

CCK095

240

m131311

240

600.1013 Purchased No Each 985.0000

600 1013

021200-3M TAPE PRIMER 94 PRIMER 24216

**

5

DAS
06
9-89
DAS
26
9-89

DAS
02
9-89

Location

Loc Qty

Loc Code

CCK095

985

125154

10

m131145

975

6/15/2016

5

646.3910 Manufactured No Each 92.0000

646 3910

Shim

**

4

DAS
06
9-89

DAS
02
9-89

Location

Loc Qty

Loc Code

cck023a

72

122951

60

124245

12

cck104

20

106729

8

126228

12

DAS
26
9-89

4

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Description Work Order Deviation		Disposition			

Root Cause		FAULT CATEGORY	
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐
		Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : ☐			

Picklist Print

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Work Order ID: 132652

132652

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 6/1/2015

Required Date: 6/6/2015

Start Qty: 1.00

Required Qty: 1.00

646.3911

Manufactured No

Each

90.0000

646.3911

Shim

DAS
06
9-89

DAS
26
9-89

DAS
02
9-89

Location

Loc Qty

Loc Code

cck023

52

106863

2

126059

50

cck104

26

118824

8

126229

18

k023a

12

123075

12

Each

123.0000

646.3912

Manufactured No

646.3912

Shim

DAS
02
9-89

Location

Loc Qty

Loc Code

cck023a

60

123143

50

124501

10

cck104

63

103082

3

106927

10

123530

50

DAS
06
9-89

JUN 22 2015

DAS
26
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : ☐					

Picklist Print

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Page 18

Work Order ID: 132652

132652

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 6/1/2015

Required Date: 6/6/2015

Start Qty: 1.00

Required Qty: 1.00

646.3913

Manufactured No

Each

128.0000

646 3913

Shim

DAS
02
9-89

Location

Loc Qty

Loc Code

cck023a

25

124108

25

cck023aq

82

126060

82

cck104

21

100136

4

126058

1

126231

16

**

DAS
06
9-89

DAS
26
9-89

AN3-12A

Purchased

No

Each

129.0000

AN3-12A

Bolt

DAS
02
9-89

Location

Loc Qty

Loc Code

CA

69

m129682

69

GA

8

m130566

8

ST349

52

m126192

4

m130566

48

**

DAS
06
9-89

DAS
26
9-89

MS27039-1-16

Purchased

No

Each

148.0000

MS27039-1-16

Screw

DAS
02
9-89

Location

Loc Qty

Loc Code

ST285

148

m130224

40

m130388

8

m131317

100

**

DAS
06
9-89

DAS
26
9-89

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Shop Packet Print

Page 18

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			
				Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

Picklist Print

Page 19

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Work Order ID: 132652

132652

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 6/1/2015

Required Date: 6/6/2015

Start Qty: 1.00

Required Qty: 1.00

650.9201

Manufactured No

Each 0.0000

650 9201
Eyelet Bracket Assembly
DAS 02 9-89

**

2

132814

DAS 06 9-89

DAS 26 9-89

AN44-5A

Purchased No

Each 54.0000

AN44-5A
Eyebolt

**

2

DAS 02 9-89

Location

Loc Qty

Loc Code

ST339

54

m123900

25

m126193

13

m126193

10

m130388

6

Each

16.0000

**

2

DAS 06 9-89

DAS 26 9-89

AN665-34R

Purchased No

(*AN665-34R*)
Clevis

DAS 02 9-89

Location

Loc Qty

Loc Code

ST330

16

M130388

12

M131584

4

Each

148.0000

**

2

DAS 06 9-89

DAS 26 9-89

AN4C7A

Purchased No

AN4C7A
BOLT

DAS 02 9-89

Location

Loc Qty

Loc Code

ST312A

100

m127363

100

ST345

48

m128634

36

m130388

12

JUN 22 2015

DAS 06 9-89

DAS 26 9-89

Thursday, May 07, 2015 3:05:13 PM

Shop Packet Print

Page 19

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Description Work Order Deviation		Disposition			
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
		OTHER : ☐			

Picklist Print

Thursday, May 07, 2015 3:05:13 PM

Work Order ID: 132652

132652

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 6/1/2015

Required Date: 6/6/2015

Start Qty: 1.00

Required Qty: 1.00

NAS1149F0432P

Purchased

No

Each

1,092.000

(4)

NAS1149F0432P

WASHER

**

DAS

DAS

26

9-89

DAS

02

9-89

Location

Loc Qty

Loc Code

ST260a

1000

M131697

1000

st268

92

M128995

63

M130388

16

M131340

13

4

MS21042L4

Purchased

No

Each

2,297.000

(2)

MS21042L4

Locknut

**

DAS

06

9-89

JUN 22 2015

DAS

02

9-89

Location

Loc Qty

Loc Code

FP001

42

m124231

42

GA

224

m127813

224

ST260a

62

m130799

56

m131803

6

ST305

1969

m128300

8

m130388

16

m130922

97

m131618

12

m132123

1836

2

DAS

26

9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date :	Step #:	QTY Effective :		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition			
				Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY			
Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐	No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐	Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐	Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐	Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐	Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐
OTHER : ☐					

Picklist Print

Thursday, May 07, 2015 3:05:13 PM

Work Order ID: 132652

132652

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 6/1/2015

Required Date: 6/6/2015

Start Qty: 1.00

Required Qty: 1.00

AN316C4R

Purchased

No

Each

57.0000

AN316C4R

NUT

**

2

DAS
06
9-89

DAS
02
9-89

Location

Loc Qty

Loc Code

ST331

57

124561

8

m127584

8

m127618

20

m127838

13

m130388

8

MS21042-3

MS21042L3

Purchased

No

Each

620.0000

MS21042-3

Nut / use MS21042L3

**

2

DAS
06
9-89

DAS
02
9-89

Location

Loc Qty

Loc Code

CA

501

M129682

501

ST305

119

M128770

10

M129541

15

M130388

94

MS27039-08-13

Purchased

No

Each

457.0000

MS27039-08-13

Screw

**

2

JUN 22 2015 DAS

DAS
02
9-89

Location

Loc Qty

Loc Code

ST273A

346

124326

346

ST281

111

123352

29

4067

69

M123185

1

M130388

12

DAS
26
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width: 100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>				Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐																																																																													
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Picklist Print

Page 22

Thursday, May 07, 2015 3:05:13 PM

Work Order ID: 132652

132652

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 6/1/2015

Required Date: 6/6/2015

Start Qty: 1.00

Required Qty: 1.00

MS21042-08 MS21042L08 Purchased No

Each 39.0000

2

MS21042-08

**

USE MS21042L08

DAS
02
9-89

Location

Loc Qty

Loc Code

ST304

25

122815

25

ST306

14

m130388

14

Each

3,556.000

**

DAS
06
9-89
26
9-89

NAS1149FN832P

Purchased

No

NAS1149FN832P

Washer

DAS
02
9-89

Location

Loc Qty

Loc Code

ST260a

1870

125268

1870

st268

1686

125268

737

M130388

949

JUN 22 2015

DAS
06
9-89

DAS
28
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS <table style="width:100%; border: none;"> <tr> <td style="border: none;">Skid-tube ☐</td> <td style="border: none;">Cross tube ☐</td> <td style="border: none;">Water Jet ☐</td> <td style="border: none;">Engineering ☐</td> </tr> <tr> <td style="border: none;">Machining ☐</td> <td style="border: none;">Small Fab ☐</td> <td style="border: none;">Prod. Eng. Coord. ☐</td> <td style="border: none;">Quality ☐</td> </tr> <tr> <td style="border: none;">Thermoforming ☐</td> <td style="border: none;">Finishing ☐</td> <td style="border: none;">Rec/Store/Packaging ☐</td> <td style="border: none;">Other ☐</td> </tr> <tr> <td style="border: none;">Large Fab ☐</td> <td style="border: none;">Composite ☐</td> <td style="border: none;">Supplier ☐</td> <td></td> </tr> </table>				Skid-tube ☐	Cross tube ☐	Water Jet ☐	Engineering ☐	Machining ☐	Small Fab ☐	Prod. Eng. Coord. ☐	Quality ☐	Thermoforming ☐	Finishing ☐	Rec/Store/Packaging ☐	Other ☐	Large Fab ☐	Composite ☐	Supplier ☐	
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OTHER : ☐																					

APICAL

INDUSTRIES, INC.

ENGINEERING CHANGE NOTICE NO.

04731

SHEET 1 OF 2

DWG NO. 646.4000

REV: A

PREPARED BY J. SOTO

DATE: 11/04/2014

EFFECT ON DWG
☒ INC. ☐ UNINC.

DWG TITLE: AS350 CABLE CUTTERS KIT

APPROVED BY:

ENGR

MFG

QC

EFF. NEXT ORDER

TRANSACTION CODES (TC):
A-ADD C-CREATE
R-REVISE D-DELETE

REASON: REVISED BOM. INCORPORATED ECN 03046 AND 03079.

SEE COPY
REF. EN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WHILE IN NOTICE
WORK ORDER

ML 132652 MJS

1505-11

76	A	601.2764	4	4	WASHER	NAS1149FN832P	
75	A	601.2973	2	2	LOCKNUT	MS21042-08	
74	A	601.2988	2	2	SCREW	MS27039-0813	
73	A	601.2943	2	2	LOCKNUT	MS21042-3	
72	A	601.3128	2	2	NUT	AN316C4R	
71	A	601.3209	2	2	LOCKNUT	MS21042L4	
70	A	601.2638	4	4	WASHER	NAS1149F0432P	
69	A	601.2669	2	2	BOLT	AN4C7A	
68	A	601.3119	2	2	CLEVIS	AN665-34R	
67	A	601.3121	2	2	EYE BOLT	AN44-57	
66	A	650.9201	2	2	EYE BRACKET ASSY		
51	R	601.2926	10	10	BOLT	AN3-11A	
12	R	601.1624	53	61	LOCKNUT	MS21042L3	
11	R	601.1607	120	138	WASHER	NAS1149F0332P	
8	R	647.7703	2	2	STRUT ASSY		
7	R	647.0112	2	2	STRUT BRACKET		
F/N	TC	PART NUMBER	.4003	.4001			
		QTY			DESCRIPTION	MATERIAL	SPECIFICATION

DOCUMENTS EFFECTED:

☐ MDL ☒ INSTALL INSTRUCTIONS ☒ ICA ☐ FMS ☒ BOM

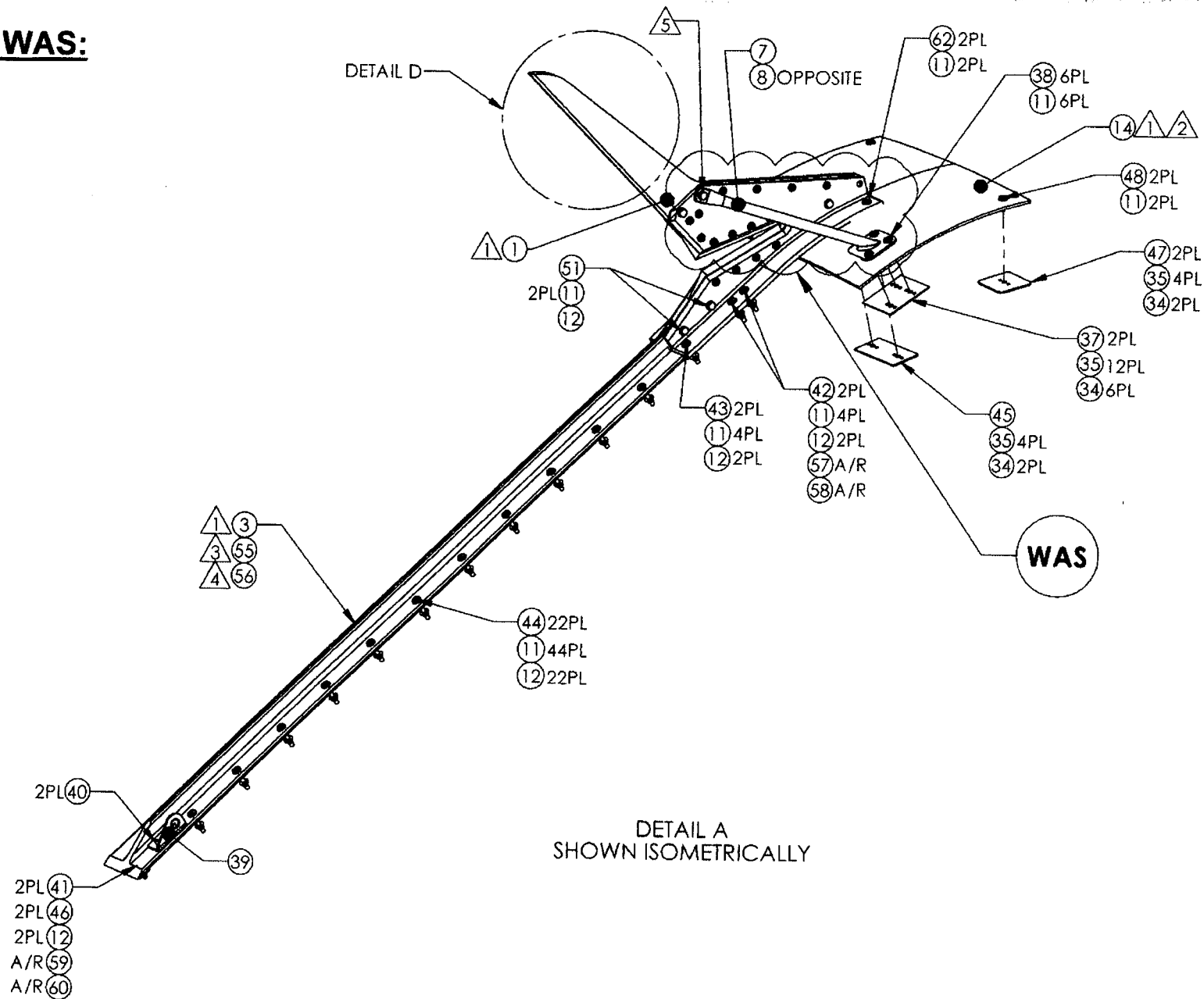
CHANGE CATEGORY

☐ MAJOR ☒ MINOR

DER REVIEW REQUIRED

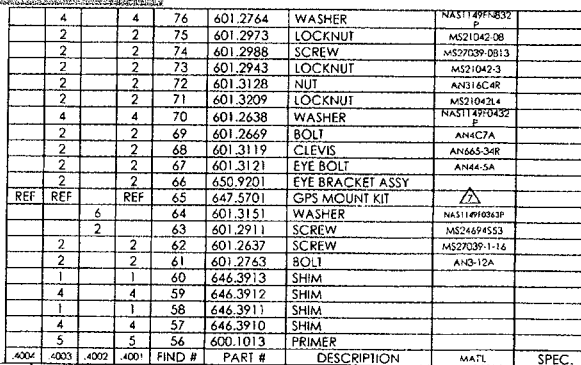
☐ YES ☒ NO

SHEET 2 WAS:



Ref.  JUN 23 2015

- ① AFTER INSTALLATION, APPLY F/N 54 A/R TO FILL GAPS AND FILLET EDGES
- ② INSTALL F/N 14 WITH F/N 52 & 53
- ③ 3M VHB ADHESIVE TAPE .025" THICK X .50" WIDE
VENDOR : MCMMASTER-CARR P/N 75935A651
- ④ 3M TAPE PRIMER 94, APPLY TO BOTH SURFACES A/R BEFORE TAPE
VENDOR: R.S. HUGHES P/N 021200-24216
- ⑤ REUSE FASTENERS FROM F/N 1
- ⑥ USE WASHERS AS REQUIRED AS SHIMS TO OBTAIN BEST FITMENT
- ⑦ AT CUSTOMERS OPTION, INSTALL F/N 65 BY MATCH DRILLING ONTO F/N 1

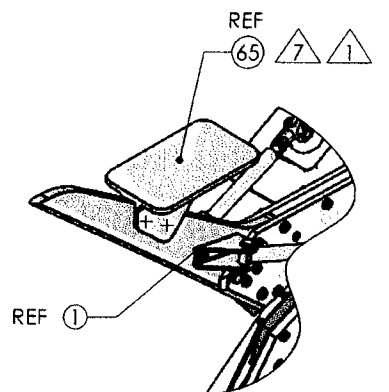


REV.					DESCRIPTION		DATE	APPROVED
A					INCORPORATED ECHS 021199, 02351, 02719 & 02765		02/08/2010	P. BRAVO
B					INCORPORATED ECHS 03046, 03079 & 04231		11/04/2014	P. BRAVO

	8 FT		1	1	55	600.0129	VHB TAPE		
					54	600.1012	SEALANT	PR-1425 CLASS B	
					53	600.0991	MAGNABOND 6398 PART B		
					52	600.0990	MAGNABOND 6398 PART A		
	10			10	51	601.2826	BOLT	AN3-11A	
			2		50	646.3814	WIPER BRACKET		
			2		49	601.2910	SCREW	MS27039-1-18	
2				2	48	601.1365	SCREW	MS27039-1-10	
2				2	47	646.3719	DOUBLER		
	2			2	46	646.3718	CUSTOM WASHER		
1				1	45	646.3717	DOUBLER		
	22	2	22	44	601.1948	SCREW	MS27039-1-19		
	2		2	43	601.1952	SCREW	MS27039-1-20		
	4		4	42	601.1956	SCREW	MS27039-1-21		
	2		2	41	601.2829	SCREW	MS24694554		
	2		2	40	601.2831	RIVET	MS20426A05-7		
	1		1	39	646.3716	GAUGE BRACKET			
	6		6	38	601.1953	SCREW	MS27039-1-12		
2			2	37	646.3715	STRUT DOUBLER			
	2		2	36	601.2824	BOLT	AN3-5A		
36			36	35	601.2277	RIVET	CCR28455-3-02		
18			18	34	600.0795	NUTPLATE	MS21047-3		
3			3	33	601.2565	RIVET	MS20470AD5-7		
1			1	32	646.3813	STRUT BRACKET			
4			4	31	601.2822	BOLT	AN3-3A		
2			2	30	646.3812	GUSSET BRACKET			
8			8	29	601.2564	RIVET	MS20470AD5-6		
1			1	28	646.3714	GUSSET			
	1		1	27	646.3610	FILLER			
	1		1	26	601.2830	SCREW	MS24694555		
	2		2	25	601.2825	BOLT	AN3-6A		
	1		1	24	646.3811	RADIUS BLOCK			
	1		1	23	646.3712	CLIP			
	1		1	22	646.3711	CLIP			
8			8	21	601.2832	RIVET	MS20470AD5-5.5		
14			14	20	601.2020	RIVET	CR3213-5-3		
10			10	19	601.2823	BOLT	AN3-4A		
	1		1	18	601.2827	BOLT	AN3-13A		
	5		5	17	601.2912	SCREW	MS24694551		
	1		1	16	646.3713	GUSSET			
	1		1	15	646.3210	SUPPORT			
	1		1	14	646.3710	DOUBLER			
	1		1	13	646.3110	CHANNEL			
8	53	6	61	12	601.1624	LOCKNUT	MS21042L3		
18	120	16	138	11	601.1607	WASHER	HA511490332P		
		1		10	646.3410	LH WIPER DEFLECTOR			
		1		9	646.3411	RH WIPER DEFLECTOR			
	2		2	8	647.7703	STRUT ASSY			
	2		2	7	647.0112	STRUT BRACKET			
	1		1	6	646.3511	STRUT			
	1		1	5	646.3510	STRUT			
2			2	4	646.3810	BRACKET			
	1		1	3	646.2910	DEFLECTOR			
	1		1	2	646.3001	LOWER CUTTER ASSY			
	1		1	1	646.3301	UPPER CUTTER ASSY			
X					646.4004	FIXED PROVISIONS KIT			
	X				646.4003	CABLE CUTTERS 1/4" WITHOUT FREE PROVISIONS			
		X			646.4002	AS350 WIPER DEFLECTOR KIT			
			X		646.4001	AS350 CABLE CUTTERS KIT			
.4004	.4003	.4002	.4001	FIND #	PART #	DESCRIPTION	MAT'L	SPEC.	

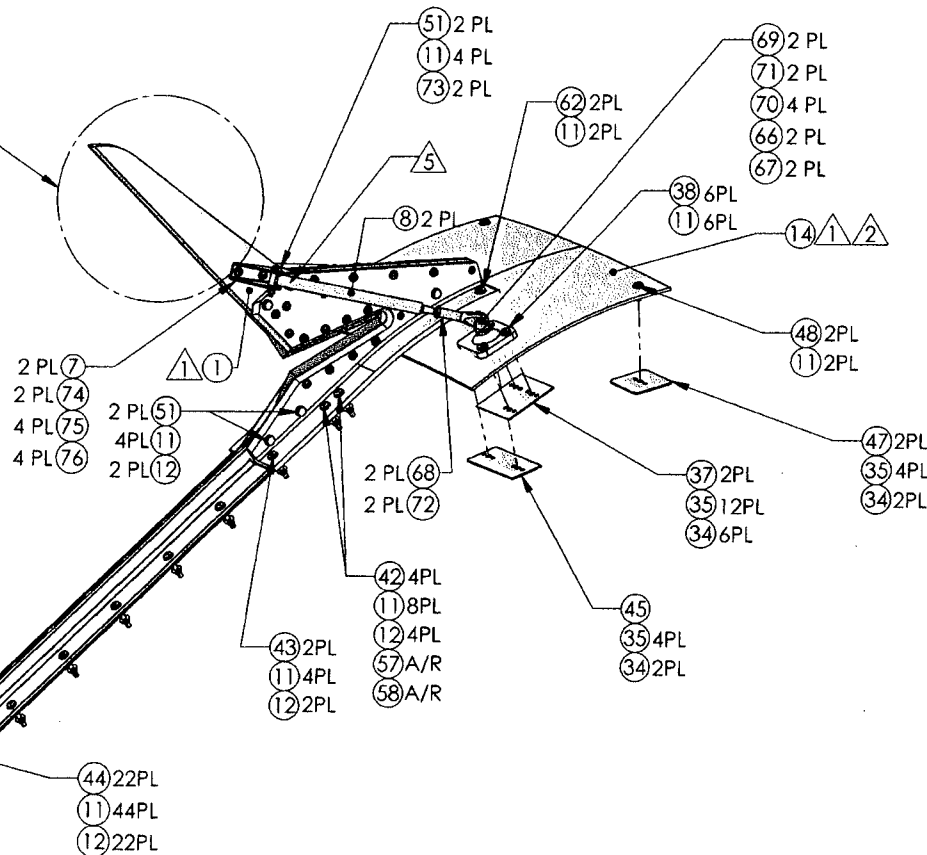
QTY		NEXT ASSY (S)		ORIGINAL DATE: 08-27-08 DRAWN BY: J. BRAYO CHECKED BY: J. BRAYO DESIGN APPROVAL: J. BRAYO CONTRACT NO: 2014		PARTS LIST	
UNLESS OTHERWISE SPECIFIED MAGNABOND AIR F R FCHS 102 BRANCHED ALE 2 RACE DECKS 1/2 ANCHES 2						APICAL INDUSTRIES	
						6208 TEMPLE HEIGHTS DR. OCEANSIDE, CA 92056-3512 (760) 724-5300	
SCALE NONE						44.0000	
						SHEET 1 OF 4	

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DETAIL D
TYPICAL GPS MOUNT KIT INSTALLATION

DETAIL D

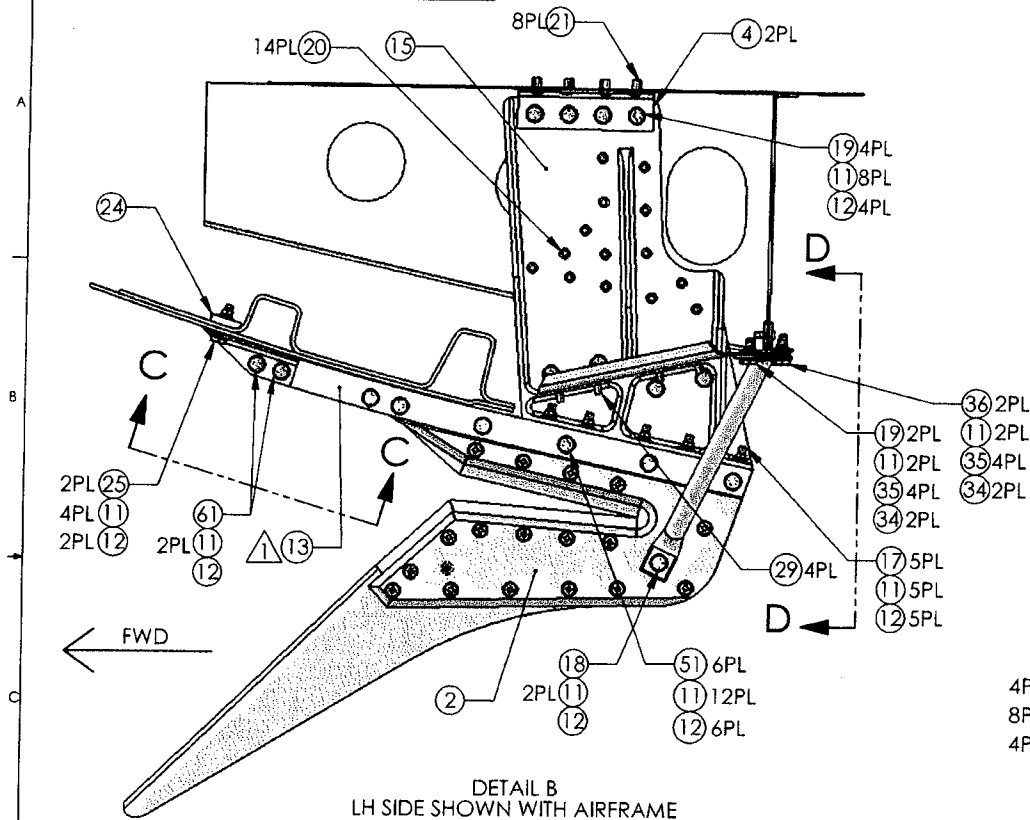


DETAIL A
SHOWN ISOMETRICALLY

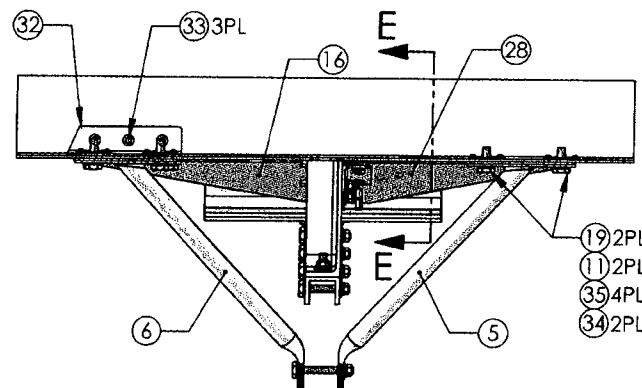
ORIGINAL DATE (MM-DD-YY) 08-22-08		APICAL INDUSTRIES	
DRAWN BY S. HUFF		2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
CHECKED BY P. BRAYO		AS350 CABLE CUTTERS KIT	
DRAWING APPROVAL P. BRAYO		SHEET B	REV. B
CONTRACT NO.		DWG. NO. 646.4000	SCALE: NONE
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 ANGLES ± .5°		SHEET 2 OF 4	

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES AND REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES IS PROHIBITED.

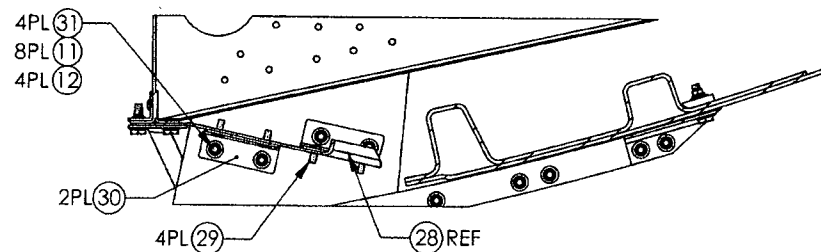
REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED



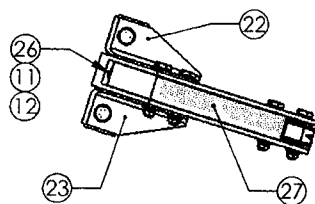
DETAIL B
LH SIDE SHOWN WITH AIRFRAME



SECTION D-D
CUTTER HIDDEN FOR CLARITY



SECTION E-E

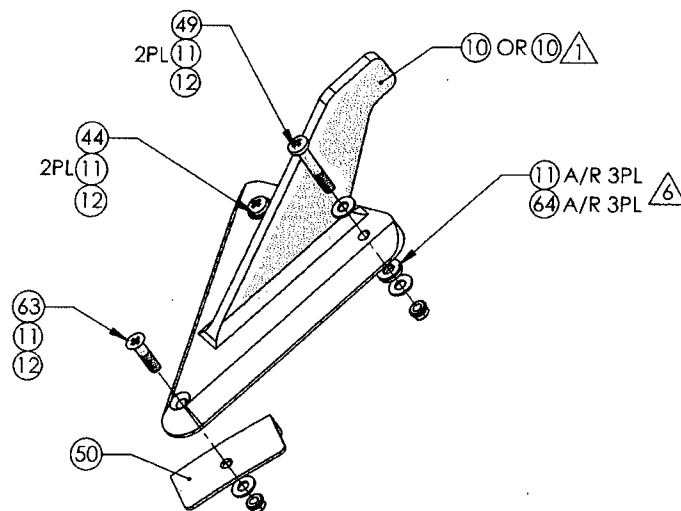


SECTION C-C

ORIGINAL DATE: 08-27-08 MOD DATE: 08-27-08 DRAWN BY: J. HUFF CHECKED BY: P. BRAYO DRAWING APPROVAL: P. BRAYO DATE: 08-27-08 CONTRACT NO.		APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°		AS350 CABLE CUTTERS KIT	
SHEET 8	CAGE CODE 07M26	DWG. NO. 646.4000	REV. 8
SCALE NONE		SHEET 3 OF 4	

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES IS PROHIBITED.

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED



DETAIL C
LH SHOWN EXPLODED
RH OPPOSITE

ORIGINAL DATE (MO-DAY-YR) 08-27-08		APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760)724-5300	
DRAWN BY S. HUP	P. BRAVO		
DESIGNED BY P. BRAVO	APPROVAL P. BRAVO		
DATE 08-27-08	CONTRACT NO.		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ± .01 3 PLACE DECIMALS ± .005 ANGLES ± .5°		SHEET B	CAGE CODE 07M26
SCALE NONE		DWG. NO. 646.4000	REV. B
SHEET 4 OF 4		AS350 CABLE CUTTERS KIT	

Ref.

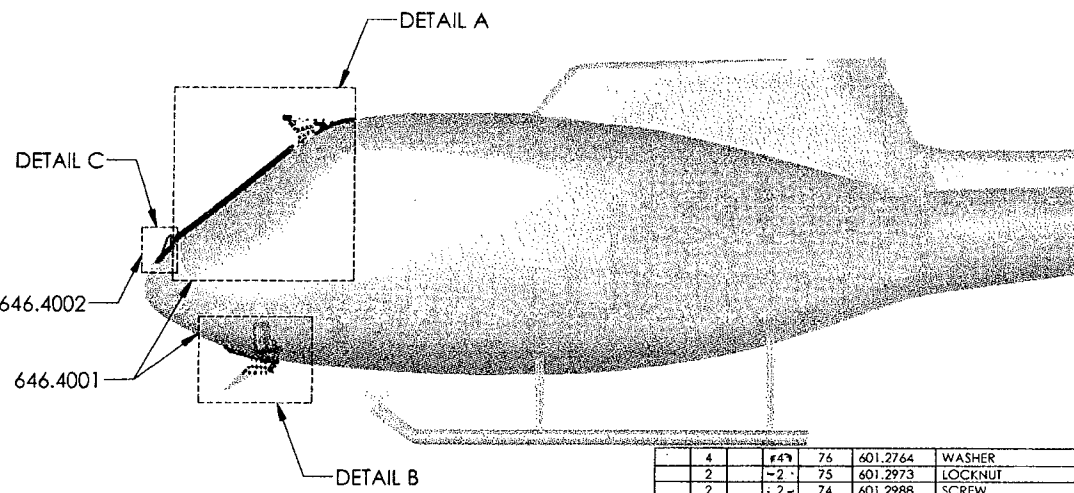
DAS
26
9-89

JUN 23 2015

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NOTES:

- 1 AFTER INSTALLATION, APPLY F/N 54 A/R TO FILL GAPS AND FILLET EDGES
- 2 INSTALL F/N 14 WITH F/N 52 & 53
- 3 3M VHB ADHESIVE TAPE .025" THICK X .50" WIDE
VENDOR: MCMMASTER-CARR P/N 75935A651
- 4 3M TAPE PRIMER 94, APPLY TO BOTH SURFACES A/R BEFORE TAPE
VENDOR: R.S. HUGHES P/N 021200-24216
- 5 REUSE FASTENERS FROM F/N 1
- 6 USE WASHERS AS REQUIRED AS SHIMS TO OBTAIN BEST FITMENT
- 7 AT CUSTOMERS OPTION, INSTALL F/N 65 BY MATCH DRILLING ONTO F/N 1



REF	REF	QTY	PART #	DESCRIPTION	MATL	SPEC.
4	64	76	601.2764	WASHER	NAS114911B32	
2	2	75	601.2973	LOCKNUT	MS21042-08	
2	2	74	601.2988	SCREW	MS27039-0813	
2	2	73	601.2943	LOCKNUT	MS21042-3	
2	2	72	601.3128	NUT	AN316C4R	
2	2	71	601.3209	LOCKNUT	MS21042-4	
4	4	70	601.2638	WASHER	MS21170G432	
2	2	69	601.2669	BOLT	ANAC7A	
2	2	68	601.3119	CLEVIS	AN665-34R	
2	2	67	601.3121	EYE BOLT	AN44-5A	
2	2	66	650.9201	EYE BRACKET ASSY		
2	2	65	647.5701	GPS MOUNT KIT		
6	6	64	601.3151	WASHER	NAS114911B32	
2	2	63	601.2911	SCREW	MS2469-4553	
2	2	62	601.2637	SCREW	MS27039-1-16	
1	1	61	601.2763	BOLT	AN3-12A	
4	4	60	646.3913	SHIM		
1	1	59	646.3912	SHIM		
4	4	58	646.3911	SHIM		
1	1	57	646.3910	SHIM		
4	4	56	600.3013	PRIMER		

REV.	DESCRIPTION	DATE	APPROVED
1	INCORPORATED ECHS 02119, 02231, 02719 & 02765	07/08/2010	P. BRAVO
2	INCORPORATED ECHS 02044, 03079 & 04731	11/04/2014	P. BRAVO

8 FT	8 FT	55	600.0129	VHB TAPE	PR-1423 CLASS B
1	1	54	600.1012	SEALANT	
1	1	53	600.0991	MAGNABOND 6398 PART B	
1	1	52	600.0990	MAGNABOND 6398 PART A	
10	10	51	601.2826	BOLT	AN3-11A
2	2	50	646.3814	WIPER BRACKET	
2	2	49	601.2910	SCREW	MS27039-1-18
2	2	48	601.1365	SCREW	MS27039-1-10
2	2	47	646.3719	DOUBLER	
2	2	46	646.3718	CUSTOM WASHER	
1	1	45	646.3717	DOUBLER	
22	22	44	601.1948	SCREW	MS27039-1-19
2	2	43	601.1952	SCREW	MS27039-1-20
4	4	42	601.1956	SCREW	MS27039-1-21
2	2	41	601.2829	SCREW	MS2469-4554
2	2	40	601.2831	RIVET	MS20426ADS-7
1	1	39	646.3716	GAUGE BRACKET	
6	6	38	601.1953	SCREW	MS27039-1-12
2	2	37	646.3715	STRUT DOUBLER	
2	2	36	601.2824	BOLT	AN3-5A
36	36	35	601.2277	RIVET	CCP1445-902
18	18	34	600.0795	NUPLATE	MS21047-3
3	3	33	601.2565	RIVET	MS20426ADS-7
1	1	32	646.3813	STRUT BRACKET	
4	4	31	601.2822	BOLT	AN3-3A
2	2	30	646.3812	GUSSET BRACKET	
8	8	29	601.2564	RIVET	MS20426ADS-6
1	1	28	646.3714	GUSSET	
1	1	27	646.3610	FILLER	
1	1	26	601.2830	SCREW	MS2469-4555
2	2	25	601.2825	BOLT	AN3-6A
1	1	24	646.3811	RADIUS BLOCK	
1	1	23	646.3712	CLIP	
1	1	22	646.3711	CLIP	
8	8	21	601.2832	RIVET	MS20426ADS-5
14	14	20	601.2020	RIVET	CR3218-5-3
10	10	19	601.2823	BOLT	AN3-4A
1	1	18	601.2827	BOLT	AN3-13A
5	5	17	601.2912	SCREW	MS2469-4551
1	1	16	646.3713	GUSSET	
1	1	15	646.3210	SUPPORT	
1	1	14	646.3710	DOUBLER	
1	1	13	646.3110	CHANNEL	
8	8	12	601.1624	LOCKNUT	MS21042L3
18	18	11	601.1607	WASHER	ENAS114911G332P
1	1	10	646.3410	LH WIPER DEFLECTOR	
1	1	9	646.3411	RH WIPER DEFLECTOR	
2	2	8	647.7703	STRUT ASSY	
2	2	7	647.0112	STRUT BRACKET	
1	1	6	646.3511	STRUT	
1	1	5	646.3510	STRUT	
2	2	4	646.3810	BRACKET	
1	1	3	646.2910	DEFLECTOR	
1	1	2	646.3001	LOWER CUTTER ASSY	
1	1	1	646.3301	UPPER CUTTER ASSY	
X	X		646.4004	FIXED PROVISIONS KIT	
X	X		646.4003	FIXED CUTTERS KIT WITHOUT FREE PROVISIONS	
X	X		646.4002	AS350 WIPER DEFLECTOR KIT	
X	X		646.4001	AS350 CABLE CUTTERS KIT	

QTY	ORIGINAL DATE (M/D/YR)	08-27-08
NEXT ASSY (S)	DRAWN BY S. HUFF	P. BRAVO
	DATE 08-27-08	
	CONTRACT NO.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 3 PLACE DECIMALS ± .01 ANGLES ± .5°		
APICAL INDUSTRIES 2608 TEMPLE HEIGHTS DR. OCEANSIDE, CA. 92056-3512 (760) 724-5300 AS350 CABLE CUTTERS KIT		
SHEET	8	1 OF 4
SCALE	NONE	